

Abstract

With reliable application of a necessary amount of dross adhesion inhibitor to a cutting start position of an object material, adhesion and deposition of dross is prevented, improved productivity is attained by reducing the cycle time, and a reduction in the running cost as well as man power and improved reliability are achieved. To this end, a plasma cutting machine has a jetting means for jetting the dross adhesion inhibitor toward the cutting start position (piercing position) of the object material W from a plasma torch used for generating the plasma arc. This jetting means is constructed such that a dross adhesion inhibitor supply flow path for feeding the dross adhesion inhibitor is connected to an assist gas feeding line in which an assist gas for assisting cutting of the object material W carried out with the plasma arc flows after jetted along the plasma arc.